

Reference and Book List

The *Reference* section of the Notices is intended to provide the reader with frequently sought information in an easily accessible manner. New information is printed as it becomes available and is referenced after the first printing. As soon as information is updated or otherwise changed, it will be noted in this section.

Contacting the Notices

The preferred method for contacting the Notices is electronic mail. The editor is the person to whom to send articles and letters for consideration. Articles include feature articles, memorial articles, communications, opinion pieces, and book reviews. The editor is also the person to whom to send news of unusual interest about other people's mathematics research.

The managing editor is the person to whom to send items for "Mathematics People", "Mathematics Opportunities", "For Your Information", "Reference and Book List", and "Mathematics Calendar". Requests for permissions, as well as all other inquiries, go to the managing editor.

The electronic-mail addresses are `notices@math.ou.edu` in the case of the editor and `notices@ams.org` in the case of the managing editor. The fax numbers are 405-325-7484 for the editor and 401-331-3842 for the managing editor. Postal addresses may be found in the masthead.

Upcoming Deadlines

August 18, 2006: Letters of intent for NSF Focused Research Groups. See http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5671&org=DMS.

September 12, 2006: Applications for NSF International Research Fellowships. See "Mathematics Opportunities" in this issue.

September 15, 2006: Full proposals for NSF Focused Research Groups. See http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5671&org=DMS.

September 15, 2006: Nominations for Alfred P. Sloan Foundation Fellowships. Contact Sloan Research Fellowships, Alfred P. Sloan Foundation, 630 Fifth Avenue, Suite 2550, New York, New York 10111-0242, or see the website http://www.sloan.org/programs/fellowship_brochure.shtml.

September 30, 2006: Applications for AMS "Math in Moscow" Scholarships for spring 2007. See "Mathematics Opportunities" in this issue.

October 1, 2006: Nominations for André Aisenstadt Mathematics Prize. Contact Director, CRM, Université de Montréal, C.P. 6128, Succursale Centre-ville, Montréal, QC H3C 3J7 Canada; fax: 514-343-2254; email: `directeur@crm.umontreal.ca`.

October 1, 2006: Applications for AWM Travel Grants. See "Mathematics Opportunities" in this issue or <http://www.awm-math.org/travelgrants.html>; telephone 703-934-0163; email: `awm@math.umd.edu`;

or contact Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

October 11, 2006: Full proposals for NSF Distinguished International Postdoctoral Research Fellowships. See "Mathematics Opportunities" in this issue.

October 15, 2006: Applications for NSA Grant and Sabbatical Programs. See "Mathematics Opportunities" in this issue.

October 17, 2006: Full proposals for Computational Science Training for Undergraduates in the Mathematical Sciences (CSUMS) of the NSF. See the website http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf06559.

October 18, 2006: Applications for NSF Mathematical Sciences Postdoctoral Research Fellowships. See http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5301&org=DMS.

Where to Find It

A brief index to information that appears in this and previous issues of the *Notices*.

AMS Bylaws—November 2005, p. 1239

AMS Email Addresses—February 2006, p. 251

AMS Ethical Guidelines—June/July 2006, p. 701

AMS Officers 2005 and 2006 (Council, Executive Committee, Publications Committees, Board of Trustees)—May 2006, p. 604

AMS Officers and Committee Members—October 2005, p. 1073

Conference Board of the Mathematical Sciences—September 2005, p. 911

Information for Notices Authors—June/July 2006, p. 696

Mathematics Research Institutes Contact Information—August 2006, p. 798

National Science Board—January 2006, p. 62

New Journals for 2004—June/July 2006, p. 697

NRC Board on Mathematical Sciences and Their Applications—March 2006, p. 369

NRC Mathematical Sciences Education Board—April 2006, p. 488

NSF Mathematical and Physical Sciences Advisory Committee—February 2006, p. 255

Program Officers for Federal Funding Agencies—October 2005, p. 1069 (DoD, DoE); November 2005, p. 1223 (NSF)

Stipends for Study and Travel—September 2005, p. 913

November 2006: Applications for NSF Graduate Fellowships. See “Mathematics Opportunities” in this issue.

November 1, 2006: Nominations for Vasil Popov Prize. Contact Pencho Petrushev, Chair, Popov Prize Selection Committee, Department of Mathematics, University of South Carolina, Columbia, SC 29208; email: popov@math.sc.edu.

December 1, 2006: Applications for AMS Centennial Research Fellowship Program. See “Mathematics Opportunities” in this issue.

December 2, 2006: Submissions for 2007 Sunyer i Balaguer Prize. See <http://www.crm.es/FerranSunyerBalaguer/ffsb.htm>.

December 31, 2006: Entries for Pirelli INTERNETional Award competition. See the website <http://www.pirelliaward.com>.

February 1, 2007: Applications for AWM Travel Grants and Mentoring Travel Grants. See “Mathematics Opportunities” in this issue.

April 15, 2007: Applications for AMS “Math in Moscow” Scholarships for fall 2007. See “Mathematics Opportunities” in this issue.

May 1, 2007: Applications for AWM Travel Grants. See “Mathematics Opportunities” in this issue.

October 1, 2007: Applications for AWM Travel Grants. See “Mathematics Opportunities” in this issue.

Conference Board of the Mathematical Sciences

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Member Societies

American Mathematical Association
of Two-Year Colleges (AMATYC)
American Mathematical Society
(AMS)
American Statistical Association

(ASA)
Association for Symbolic Logic (ASL)
Association for Women in
Mathematics (AWM)
Association of Mathematics Teacher
Educators (AMTE)
Association of State Supervisors of
Mathematics (ASSM)
Benjamin Banneker Association
(BBA)
Institute for Operations Research
and the Management Sciences
(INFORMS)
Institute of Mathematical Statistics
(IMS)
Mathematical Association of
America (MAA)
National Association of
Mathematicians (NAM)
National Council of Supervisors of
Mathematics (NCSM)
National Council of Teachers of
Mathematics (NCTM)
Society for Industrial and Applied
Mathematics (SIAM)
Society of Actuaries (SOA)

Book List

The Book List highlights books that have mathematical themes and are aimed at a broad audience potentially including mathematicians, students, and the general public. When a book has been reviewed in the Notices, a reference is given to the review. Generally the list will contain only books published within the last two years, though exceptions may be made in cases where current events (e.g., the death of a prominent mathematician, coverage of a certain piece of mathematics in the news) warrant drawing readers' attention to older books. Suggestions for books to include on the list may be sent to notices-booklist@ams.org.

*Added to “Book List” since the list's last appearance.

A³ & His Algebra: How a Boy from Chicago's West Side Became a Force in American Mathematics, by Nancy E. Albert. iUniverse, Inc., January 2005. ISBN 0-595-32817-2. (Reviewed December 2005.)

Alan Turing's Automatic Computing Engine: The Master Codebreaker's Struggle to Build the Modern Computer, edited by B. Jack Copeland.

Oxford University Press, June 2005. ISBN 0-198-56593-3.

Beyond Coincidence: Amazing Stories of Coincidence and the Mystery and Mathematics Behind Them, by Martin Plimmer and Brian King. Thomas Dunne Books, December 2005. ISBN 0-312-34036-2.

The Book of Presidents, by Susan Oakes, Alan Pears, and Adrian Rice. London Mathematical Society, 2005. ISBN 0-950-27341-4.

Change Is Possible: Stories of Women and Minorities in Mathematics, by Patricia Clark Kenschaft. AMS, September 2005. ISBN 0-8218-3748-6.

Coincidences, Chaos, and All That Math Jazz: Making Light of Weighty Ideas, by Edward B. Burger and Michael Starbird. W. W. Norton, August 2005. ISBN 0-393-05945-6.

The Coxeter Legacy: Reflections and Projections, edited by Chandler Davis and Erich W. Ellers. AMS, March 2006. ISBN 0-8218-3722-2.

The Curious Incident of the Dog in the Night-time, by Mark Haddon. Vintage, May 2004. ISBN 1-400-03271-7. (Reviewed March 2006.)

Dark Hero of the Information Age: In Search of Norbert Wiener, by Flo Conway and Jim Siegelman. Basic Books, December 2004. ISBN 0-738-20368-8. (Reviewed May 2006.)

Decoding the Universe: How the New Science of Information Is Explaining Everything in the Cosmos, from Our Brains to Black Holes, by Charles Seife. Viking Adult, February 2006. ISBN 0-670-03441-X.

Descartes: A Biography, by Desmond Clarke. Cambridge University Press, March 2006. ISBN 0-521-82301-3.

Divine Proportions: Rational Trigonometry to Universal Geometry, by N. J. Wildberger. Wild Egg Books, September 2005. ISBN 0-9757492-0-X.

**Euclid in the Rainforest: Discovering Universal Truths in Logic and Math*, by Joseph Mazur. Pi Press, October 2004. ISBN 0-131-47994-6.

The Equations: Icons of Knowledge, by Sander Bais. Harvard University Press, November 2005. ISBN 0-674-01967-9.

M. C. Escher's Legacy: A Centennial Celebration, edited by Doris Schattschneider and Michele Emmer. Springer, September 2005 (paperback

edition). ISBN 3-540-20100-9.

Euler through Time: A New Look at Old Themes, by V. S. Varadarajan. AMS, June 2006. ISBN 0-8218-3722-2.

The Fermat Diary, by C. J. Mozzochi. AMS, August 2000. ISBN 0-8218-2670-0.

The Fermat Proof, by C. J. Mozzochi. Trafford Publishing, Inc., February 2004. ISBN 1-412-02203-7.

God Created the Integers, by Stephen Hawking. Running Press, October 2005. ISBN 0-762-41922-9.

Gödel's Theorem: An Incomplete Guide to Its Use and Abuse, by Torkel Franzen. A K Peters, May 2005. ISBN 1-56881-238-8.

Hiding in the Mirror: The Mysterious Allure of Extra Dimensions, from Plato to String Theory and Beyond, by Lawrence M. Krauss. Viking Adult, October 2005. ISBN 0-670-03395-2.

Incompleteness: The Proof and Paradox of Kurt Gödel, by Rebecca Goldstein. W. W. Norton & Company, February 2005. ISBN 0-393-05169-2. (Reviewed April 2006.)

Infinite Ascent: A Short History of Mathematics, by David Berlinski. Modern Library, September 2005. ISBN 0-679-64234-X.

The Infinite Book: A Short Guide to the Boundless, Timeless and Endless, by John D. Barrow. Pantheon, August 2005. ISBN 0-375-42227-7.

Introducing Game Theory and Its Applications, by Elliott Mendelson. CRC Press, July 2004. ISBN 1-584-88300-6.

It's About Time: Understanding Einstein's Relativity, by N. David Mermin. Princeton University Press, September 2005. ISBN 0-691-12201-6.

János Bolyai, Euclid, and the Nature of Space, by Jeremy J. Gray. MIT Press, May 2003. ISBN 0-262-57174-9. (Reviewed October 2005.)

The Lifebox, the Seashell, and the Soul: What Gnarly Computation Taught Me about Ultimate Reality, the Meaning of Life, and How to be Happy, by Rudy Rucker. Thunder's Mouth Press, October 2005. ISBN 1-560-25722-9.

Saunders Mac Lane: A Mathematical Autobiography, by Saunders Mac Lane. A K Peters, May 2005. ISBN 1-56881-150-0. (Reviewed December 2005.)

The Man Who Knew Too Much: Alan Turing and the Invention of the Computer, by David Leavitt. Great Discoveries series, W. W. Norton, December 2005. ISBN 0-393-05236-2.

The Math Instinct: Why You're a Mathematical Genius (Along with Lobsters, Birds, Cats, and Dogs), by Keith Devlin. Thunder's Mouth Press, March 2005. ISBN 1-56025-672-9.

Mathematical Adventures for Students and Amateurs, David F. Hayes and Tatiana Shubin, editors. Mathematical Association of America, 2004. ISBN 0-88385-548-8.

Mathematical Musings: A Collection of Quotes, edited by Dan Sonnenschein. Clarium Press, November 2005. ISBN 0-9697688-8-5.

Meta Math! The Quest for Omega, by Gregory Chaitin. Pantheon, October 2005. ISBN 0-375-42313-3.

More Mathematical Astronomy Morsels, by Jean Meeus. Willmann-Bell, 2002. ISBN 0-943396-743.

Mystic, Geometer, and Intuitionist: The Life of L. E. J. Brouwer. Volume 2: Hope and Disillusion, by Dirk van Dalen. Oxford University Press, October 2005. ISBN 0-198-51620-7.

New Mexico Mathematics Contest Problem Book, by Liong-shin Hahn. University of New Mexico Press, November 2005. ISBN 0-8263-3534-9.

The Newtonian Moment: Isaac Newton and the Making of Modern Culture, by Mordechai Feingold. New York Library and Oxford University Press, December 2004. ISBN 0-195-17735-5.

**Not Even Wrong: The Failure of String Theory and the Continuing Challenge to Unify the Laws of Physics*, by Peter Woit. Jonathan Cape, April 2006. ISBN 0-224-07605-1.

The Oxford Murders, by Guillermo Martínez. Abacus, January 2005. ISBN 0-349-11721-7. (Reviewed November 2005.)

The Pea and the Sun: A Mathematical Paradox, by Leonard M. Wapner. A K Peters, April 2005. ISBN 1-56881-213-2.

Piero della Francesca: A Mathematician's Art, by J. V. Field. Yale University Press, August 2005. ISBN 0-300-10342-5.

PopCo, by Scarlett Thomas. Harvest Books, October 2005. ISBN 0-156-03137-X. (Reviewed February 2006.)

Probability Theory: The Logic of Science, by E. T. Jaynes. Edited by G. Larry Bretthorst. Cambridge University Press, April 2003. ISBN 0-521-59271-2. (Reviewed January 2006.)

Reality Conditions: Short Mathematical Fiction, by Alex Kasman. Mathematical Association of America, May 2005. ISBN 0-88385-552-6. (Reviewed August 2006.)

Reflections: V. I. Arnold's Reminiscences, by V. I. Arnold. Springer, April 2006. ISBN 3-540-28734-5.

The Road to Reality: A Complete Guide to the Laws of the Universe, by Roger Penrose. Knopf, February 2005. ISBN 0-679-45443-8. (Reviewed June/July 2006.)

Science in the Looking Glass, by E. Brian Davies. Oxford University Press, August 2003. ISBN 0-198-52543-5. (Reviewed December 2005.)

The Secret Life of Numbers: 50 Easy Pieces on How Mathematicians Work And Think, by George G. Szpiro. Joseph Henry Press, March 2006. ISBN 0-309-09658-8.

Shadows of Reality: The Fourth Dimension in Relativity, Cubism, and Modern Thought, by Tony Robbin. Yale University Press, March 2006. ISBN 0-300-11039-1.

Stalking the Riemann Hypothesis, by Dan Rockmore. Pantheon Books, 2005. ISBN 0-375-42136-X. (Reviewed in this issue.)

Symmetry and the Monster: The Story of One of the Greatest Quests of Mathematics, by Mark Ronan. Oxford University Press, May 2006. ISBN 0-192-80722-6.

The Three Body Problem, by Catherine Shaw. Allison and Busby, March 2005. ISBN 0-749-08347-6.

**Unknown Quantity: A Real and Imaginary History of Algebra*, by John Derbyshire. Joseph Henry Press, May 2006. ISBN 0-309-09657-X.

Using the Mathematics Literature, by Kristine K. Fowler. Marcel Dekker, June 2004. ISBN 0-824-75035-7.

The Visual Mind II, edited by Michele Emmer. MIT Press, May 2005. ISBN 0-262-05076-5.